MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122

Revised 12-1-55

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Dat.	oducing Thru	tion:	····° *	Packe		Sing	zle-Brade	nhead-G	G. or G	.O. Dual	
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	(Proven)		ow Data	ss. Diff.	Tomp	Tubing		Casing D		Duration	
No.			(2)		1			riess.	Temp.	Duration of Flow	
	Size	Siz	e ps	ig h _w	,°F.	p sig	o _F .	psig	°F∙	Hr.	
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4.		1.000		000.0	- 66 0			393 367		94	
<u> </u>					FLOW CALC						
No.	Coefficient					emp. Gravity Factor		, -		Rate of Flow Q-MCFPD	
. 0			$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$	psia	Ft		Fg	Fpv		@ 15.025 psia	
1. 2.	6,135		44. 90		. 9949		9608	1.041		884	
<u>2. </u>	6.235		62.58		9987		9608			994	
3.	6.135		76.66		- 9933	9608		1.039		1.075	
	6.135		96.02		.0007		9608	2.037		1,184	
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No.	Py Pt (psia)	Pt ²	F _c Q	(F _c Q) ²	(F _C	Q) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	<u>C</u> a P	1. Pw Pc	
1. 2. 3.	430.2	165.1	0.43	0.18	0.0	23	165.1	75.2			
3. I	625.2	172.6	0.48	0.23	0.0	29	78.4	87.9	1	_ 	
4. 5.	400.2	165.0	0,53		0.0		165.0	95.3 100.1	 		
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INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q Tactual rate of flow at end of flow period at W. H. working pressure (Pw). MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- Pw- Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n _ Slope of back pressure curve.

Note: If P_{W} cannot be taken because of manner of completion or condition of well, then P_{W} must be calculated by adding the pressure drop due to friction within the flow string to P_{+} .